

Title (en)
ORGANIC FERTILIZER AND METHOD OF ITS PRODUCTION

Title (de)
ORGANISCHES DÜNGEMITTEL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)
ENGRAIS ORGANIQUE ET PROCÉDÉ POUR LE PRODUIRE

Publication
EP 2931680 B1 20180530 (EN)

Application
EP 11804629 A 20111017

Priority
• CZ 2010778 A 20101026
• CZ 2011000101 W 20111017

Abstract (en)
[origin: WO2012055379A1] Organic fertilizer produced through composting natural lignocellulose material and liquid wastes especially from livestock production, which has a content of minimum 35% dry matter, minimum 25 weight % of organic material, minimum 20 weight % of humus and minimum 1,5 weight % of nitrogen. The organic fertilizer is produced by spraying sorbent material with waste water, that is livestock waste water or food industry waste water or water cleaning plant sludges. The waste water contains a minimum of 20% weight of livestock waste water, which is homogenized with agent, which consists of materials based on starch derivatives or cellulose derivatives, which increase thixotrophy and surface tension of this waste water and separators, which prevent creation of clusters and increase solubility of starch or cellulose derivatives. Sorbent material with waste water is mixed, aerated and decomposed by aerobic bacterial activity in at least four cycles. ?

IPC 8 full level
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CPC (source: EP US)
C05D 9/00 (2013.01 - EP US); **C05F 7/00** (2013.01 - EP US); **C05F 17/40** (2020.01 - EP US); **C05F 17/50** (2020.01 - EP US);
Y02A 40/20 (2017.12 - EP US); **Y02P 20/145** (2015.11 - EP US); **Y02W 30/40** (2015.05 - EP US)

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CZ 303821 B6 20130515; DK 2931680 T3 20180716; EA 028181 B1 20171031; EA 201300374 A1 20140530; EP 2931680 A1 20151021;
EP 2931680 B1 20180530; ES 2684326 T3 20181002; GE P20146208 B 20141210; HU E039238 T2 20181228; JP 2013545702 A 20131226;
JP 5791728 B2 20151007; PL 2931680 T3 20181031; SI 2931680 T1 20180831; UA 110951 C2 20160310; US 2013199255 A1 20130808;
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